

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/552618	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 09:39
S2	2	"20020157452"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 09:51
S3	6	"5632883"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 09:51
S4	5	"2004089055"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 09:55
S5	3	"20040089055"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 09:55
S6	6	"5312538"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 09:56
S7	252	((berndt with cramer) (andy with tiefenbach) (bernd with schumann) (thorsten with ochs) (helge with schichlein)).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 10:07
S8	104	S7 and gas near2 (sensor\$1 detector\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 10:08
S9	13	S8 and constant\$1 near5 current\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 10:11
S10	3	S8 and constant\$1 near5 pump\$4 near5 current\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 10:12
S11	2	"6254765"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 10:15
S12	81	"5731510" "5545897"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 10:16

S13	4	("5731510" "5545897").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/10/19 10:16
S14	5	("3992622"   "4759328").PN. OR ("5312538").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 10:41
S15	3925	204/421-429.ccls. 73/23.31-23.32.ccls. 205/783.5-785,781. ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 10:43
S16	220	S15 and (pump\$4 and (measur\$4 concentration\$1)) near5 (cell\$1 element \$1) and diffus\$4 near5 (barrier\$1 layer\$1) and (constant predetermin \$4) near5 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 10:44
S17	136	S15 and (pump\$4 and (measur\$4 concentration\$1)) near5 (cell\$1 element \$1) and diffus\$4 near5 (barrier\$1 layer\$1) and (constant predetermin \$4) near5 pump\$4 near5 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 10:44
S18	48	S17 and current\$1 near5 ((revers\$4 near2 polar\$5) (negative and positive) revers\$4 opposit\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 10:48
S19	5	("5763763"   "5879525"   "6010615"   "6071393"   "6635162").PN. OR ("7073369").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 15:16
S20	3925	204/421-429.ccls. 73/23.31-23.32.ccls. 205/783.5-785,781. ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 15:25
S21	0	S20 and constant near5 current\$1 near3 source\$1 and averag \$4 near5 current\$1 near5 (on off) near3 (mode\$1 phase\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 15:25
S22	0	S20 and averag\$4 near5 current\$1 near5 (on off) near3 (mode \$1 phase\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 15:25

S23	1	S20 and average\$4 near5 current\$1 near5 (mode\$1 phase\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 15:25
S24	5	S20 and average\$4 near5 current\$1 and constant near5 current near3 source\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/19 15:26
S25	3927	204/421-429.ccls. 73/23.31-23.32.ccls. 205/783.5-785,781. ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:35
S26	5	S25 and constant\$4 near5 (positive\$2 and negative\$2) near5 current\$1 near5 value \$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:35
S27	14	("4158166"   "4450065").PN. OR ("4591421").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:36
S28	0	S25 and on and off near5 (phase\$1 operation\$1 mode\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:39
S29	0	S25 and (on and off) near5 (phase\$1 operation\$1 mode\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:39
S30	0	S25 and ((on and off) on adj off) near5 (phase\$1 operation\$1 mode\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:40
S31	0	S25 and ((on and off) on adj off) with (phase \$1 operation\$1 mode \$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:40
S32	6	S25 and ((on and off) on adj off)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:40
S33	115	S25 and "on/off"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:41
S34	29	S25 and "on/off" with (phase\$1 operation\$1 mode\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/26 11:41
S35	11	"4622125"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/11/02 09:41

S36	21	("3616274"   "3650934"   "3907657"   "3990411"   "4158166"   "4181944"   "4272331"   "4287865"   "4366039"   "4375796"   "4402292").PN. OR ("4622125").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 10:22
S37	15	("4042465"   "4105523"   "4121548"   "4272331"   "4384935"   "4499880"   "4622125"   "4751907"   "4882030"   "5173167"   "5632883"   "5672811"   "5763763"   "6290829").PN. OR ("6623618").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 11:36
S38	4	S37 and (average mean)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 11:38
S39	15	("4042465"   "4105523"   "4121548"   "4272331"   "4384935"   "4499880"   "4622125"   "4751907"   "4882030"   "5173167"   "5632883"   "5672811"   "5763763"   "6290829").PN. OR ("6623618").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 12:53
S40	0	S39 and (average mean) near5 pump\$4 near3 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 12:53
S41	3932	204/421-429.ccls. 73/23.31-23.32.ccls. 205/783.5-785,781. ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 12:53
S42	12	S41 and (average mean) near5 pump\$4 near3 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 12:53
S43	187	S41 and compar\$4 near5 (emf electromotive voltage) near5 (reference predetermine\$4) near3 (emf electromotive voltage)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:12

S44	26	S41 and compar\$4 near5 (emf electromotive voltage) near5 (reference predetermine\$4) near3 (emf electromotive voltage) with pump\$4 near2 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:12
S45	21	S41 and (reference predetermine\$4) near3 (emf electromotive voltage) with pump\$4 near2 current\$1 with "mv"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:24
S46	17	("20040238378"   "20050288847"   "20060157348"   "20070272551"   "20070273540"   "20080060939"   "20080060941"   "20080196489"   "20080196490"   "20080196702"   "20090095052"   "4938194"   "5052361"   "5179929"   "5416710"   "6360583"   "7142976").PN. OR ("7596993").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:29
S47	4	"6517702"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:39
S48	8	("4226692"   "4985126"   "5993641"   "6019881"   "6045673").PN. OR ("6517702").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:44
S49	15	S41 and (plurality multiple) near5 (pump \$4 near2 (cell\$1 element\$1 unit\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/11/02 13:46

S50	15	("20020108870"   "5630920"   "5879525"   "6051123"   "6060420"   "6071393"   "6129862"   "6379514"   "6495027"   "6517702"   "6565737"   "6586127"   "6844098"   "6942772"   "7052595").PN. OR ("7153412").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:49
S51	401	S41 and (second third fourth) near5 pump\$4 near2 (cell\$1 element \$1 unit\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:52
S52	338	S41 and (second third fourth) near3 pump\$4 near2 (cell\$1 element \$1 unit\$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:52
S53	141	S41 and (second third fourth) near3 pump\$4 near2 (cell\$1 element \$1 unit\$1) with pump \$4 near2 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:53
S54	0	S41 and (second third fourth) near3 pump\$4 near2 (cell\$1 element \$1 unit\$1) with "same" near5 pump\$4 near2 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 13:53
S55	14	S41 and (suppl\$4 appl \$4) near3 pump\$4 near2 current\$1 near5 (second third fourth) near3 pump\$4 near2 (cell\$1 element\$1 unit \$1)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:01
S56	5	S41 and (suppl\$4 appl \$4) near3 pump\$4 near2 current\$1 near5 pump\$4 near2 (cells elements units)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:01
S57	4	S41 and (suppl\$4 appl \$4) near3 "same" near3 pump\$4 near2 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:12
S58	2	(rolf with reischl).in. and (nitrogen near2 oxide).ti.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:16

S59	15932	(rolf with reischl).in. (nitrogen with oxide). ti.	EPO; DERWENT	OR	OFF	2009/11/02 14:16
S60	10871	(rolf with reischl).in. (nitrogen adj oxide).ti.	EPO; DERWENT	OR	OFF	2009/11/02 14:17
S61	104	S60 and bosch.as.	EPO; DERWENT	OR	OFF	2009/11/02 14:17
S62	1	(rolf with reischl).in. and (nitrogen adj oxide).ti.	EPO; DERWENT	OR	OFF	2009/11/02 14:17
S63	15	("4645572"   "4668374"   "4824549"   "5145566"   "5476001"   "5763763"   "5772965").PN. OR ("6045673").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:35
S64	26	S41 and (average mean) with pump\$4 near3 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:53
S65	15	S41 and (calculat\$4 measur\$4 determin\$4 ascertain\$4) with (average mean) with pump\$4 near3 current \$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:53
S66	48	S41 and (average mean) near3 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:57
S67	9	S41 and (average mean) near3 current\$1 near10 time	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 14:57
S68	0	S41 and (on and off) near5 pump\$4 near2 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 15:01
S69	0	S41 and (on and off) with pump\$4 near2 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 15:01
S70	0	S41 and (on and off) near10 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 15:01
S71	21	("3616274"   "3650934"   "3907657"   "3990411"   "4158166"   "4181944"   "4272331"   "4287865"   "4366039"   "4375796"   "4402292").PN. OR ("4622125").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 15:10
S72	62	S41 and (average mean) near5 current\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 15:10

S73	19	S72 and current near5 (puls\$4 wave\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/11/02 15:11
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